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**GUIDELINE C-13**  
**(formerly 14-15)**

**Engineered Facilities at Landfills that Receive  
Municipal and/or Non-Hazardous Wastes**

**Legislative Authority:**

*Environmental Protection Act, RSO 1990, Section 27*

**Responsible Director:**

Director, Program Development Branch

**Last Revision Date:**

April, 1994

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## **SYNOPSIS**

This guideline sets forth the requirements for engineered facilities at new or expanded landfills during the "contaminating life span" of the landfill. The guideline applies to new or expanding landfill sites that receive municipal and/or non-hazardous wastes. It provides information to be used both by the proponent of a new or expanded landfill site and by the Ministry staff responsible for the review, evaluation and approval of such proposals.

### **1.0 Introduction**

This guideline addresses engineered facilities at sites receiving municipal and/or non-hazardous waste. It is designed to ensure that the surrounding environment will be capable of attenuating the contaminants remaining in a closed landfill to the levels required by Guideline B-7: "Incorporation of the Reasonable Use Concept into MOEE Groundwater Management Activities". In particular, this guideline addresses the Ministry's approval of landfills that incorporate liners and leachate collection systems.

### **2.0 Position Statement**

In order to protect the environment and human health, the Ministry will review and evaluate applications for new landfills and landfill expansions in accordance with the following position statement:

"Any engineered landfill facility shall be designed, constructed, operated and maintained to function effectively for as long as required for the protection of the environment. If periodic or continuous maintenance or replacement is required, evidence must be provided by the applicant that this can and will be accomplished".

### **3.0 Reasonable Use Concept**

This guideline is written in accordance with Guideline B-7: "Incorporation of the Reasonable Use Concept into MOEE Groundwater Management Activities".

### **4.0 Definition**

#### **Contaminating Life Span:**

The period of time during which the landfill will produce contaminants at levels that could have unacceptable impact if they were to be discharged into the surrounding environment.

## **5.0 Scope**

This guideline applies to new or expanded landfill sites which receive municipal and/or non-hazardous waste and to Ministry staff responsible for the review and evaluation of such proposals.

## **6.0 Ministry Responsibility**

The Ministry shall review and evaluate all applications for new and expanded landfill sites in accordance with the position statement (Section 2.0) and Procedure C-13-1.

## **7.0 Applicant's Responsibility**

The applicant will be responsible for providing Ministry staff with sufficient evidence to adequately review and evaluate the proposal.

### **7.1 Service Life**

It is the applicant's responsibility to define the service life of an engineered facility and indicate the frequency of replacement and the number of times it must be replaced.

### **7.2 Contaminating Life Span**

Applicants shall address the contaminating life span of the landfill, equate this with the proposed service life of the engineered facility, and support any procedures they intend to use to ensure that the service life of the facility exceeds the contaminating life span of the landfill.

## **8.0 Further Guidance**

Further guidance with respect to the use of landfill liners, leachate collection and treatment facilities, landfill covers and rapid stabilization and leachate recycling is provided in Procedure C-13-1: "Engineered Facilities at Landfills that Receive Municipal and/or Non-Hazardous Waste".



